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ENVIRONMENTAL PROTECTION NORTHWEST REGIONAL OFFICE

May 7, 2012

Via Certified Mail: No. 7006 0100 0004 0901 7458

Return Receipt Requested

David Bubbenmoyer Air Quality District Supervisor Air Quality Program Warren District Office PA Department of Environmental Protection 321 N. Warren Street North Warren, PA 16365

Re:

Saint-Gobain Containers, Inc.

Port Allegany, PA

Response to PADEP Stack Test Results Letter

Global Consent Decree Civil Action Case No. 2:10-cv-00121-TSZ. W.D. Washington

Dear Mr. Bubbenmoyer:

You will note a new letterhead on this letter. Effective April 2010, all 12 Saint-Gobain glass packaging businesses around the globe (including Saint-Gobain Containers, Inc. ("SGCP") in the U.S.) became a single brand: Verallia.

SGCI acknowledges receipt of your letter dated April 4, 2012 and offers the following comments responding to the technical review conducted by the Source Testing Section. Except where specifically noted below, we believe that the sampling performance was valid, the results are representative of actual emissions, and those results demonstrate compliance with the applicable standards.

August 24 and 26, 2010 Sulfuric Acid Mist Testing

We consulted with Mr. Patrick Grady of O'Brien & Gere, the test firm which performed this testing. Mr. Grady confirms that the Sulfuric Acid Mist tests were valid and that the emissions were in compliance with the applicable limit. The testing was conducted in accordance with the pretest protocol; however, there was an apparent deviation from Conditional Test Method (CTM) 13A, as Pennsylvania Department of Environmental Protection's (Department) review of the protocol required that collection efficiency of the sample train be determined in accordance with Section 2.8 of the Department's Source Testing Manual. The Department required that the sample train include two IPA impingers to determine collection efficiency of the sample train. Those two mini-impingers were employed in the testing, although not required by the CTM 13A. The Department's Source Test Manual states, with regard to collection efficiency determination, that the "sample train" shall achieve 95% collection efficiency, and while the first impinger may have collected less than 90% of the total SAM, there is no evidence that the two

SAINT-GOBAIN CONTAINERS _

impingers combined failed to achieve the 95% criteria. In fact, the apparent low "collection efficiency" is, we believe, not indicative of any failure to collect all of the SAM emitted by the source.

It is evident that there was some carryover from the first impinger to the second impinger during the post-test leak check. The leak check is done at 25 inches of vacuum and with the mini-impingers used for the sample train it would be difficult not to have carryover when the pressure is released following completion of the test run. We believe that is why there is no collection efficiency requirement in the test method (CTM 13A). Given the low amount of sulfuric acid in the samples (less than 10 ppm), the sample volume collected (approximately 2 dscf) and the amount of adsorbing solution (approx. 50 ml IPA) we do not believe there was breakthrough of the sample train. A review of the laboratory report indicates that the matrix spike result for these samples was 96 percent, well within the QC limits of the method (80% to 120%). An analyst familiar with this method has indicated that the matrix spike would not have met the QC limits of the method had the IPA become saturated. Therefore, laboratory data from the spiked solution confirms that the IPA was not saturated. As noted above, whereas the CTM 13A sample train consists of only one mini-impinger of 25 ml IPA, the test firm employed two such impingers, thus further assuring total capture of the SAM. In conclusion we believe that this was a valid test since there was no SAM breakthrough based upon the amount of IPA in the impingers and sample volume collected. Enclosed is an amendment, Attachment A, to the test report text Section 3.10 clarifying that two IPA impingers were used.

We consulted with Mr. Michael Kelly of CK Environmental in preparing the responses to the following test report comments.

June 7 - 10, 2011

Method 5 Combined with Method 202

- 1. In accordance with Condition 4 of the March 16, 2011 Bureau of Air Quality protocol review letter (Attachment B), the filter temperature was maintained at 248 +/-25°F. Additionally, enclosed is a copy of a laboratory report (Attachment C) confirming that the natural gas Total Sulfur (% By Weight) is <0.0031%.
- 2. Lack of stratification and cyclonic flow suggest that additional sample collection for < 5 % of the total runtime should not invalidate the sampling and the results are representative of actual emissions. Although a mid-point was sampled for additional time, the sampling rate was adjusted accordingly to ensure that each individual point was sampled in accordance with isokinetic testing.
- 3. The reported results were based on a two run average, excluding the data from Run 3 due to the condition of the filter, and a retest was performed.

Method 25A

- 1. The cylinder value was 3.03, the actual response was 3.2 and this does exceed the allowable 5% calibration check. However, the actual stack concentration was bracketed well within the calibration standards and CK suggests that biasing the results high by 0.1 ppm is an acceptable deviation from the method.
- 2. Summary calibration checks are amended and attached with this response (Attachment D).
- 3. The data was corrected to ppmvd. Revised sample results summary table is attached with this response (Attachment E).

Method 201A

The permit does not require Method 201A, and thus the Method 5 results were sufficient to demonstrate compliance and the subsequent retest using Method 5 was sufficient for such purposes.

Method 6C, 7E, and 10

1. The volumetric flow rates were recalculated using only the first 24 points in the Method 5/202 train and not include the last points that were used to obtain the additional cubic feet of sample. Revised sample results summary table is attached with this response. (Attachment E)

August 23, 2011

Method 5 Combined with Method 202

1. Lack of stratification and cyclonic flow suggest that additional sample collection for < 5 % of the total runtime should not invalidate the sampling and the results are representative of actual emissions. CK is of the opinion that it is highly unlikely that the deviations from the method would change the compliance status as the results indicate 6.87 lbs/hr compared to the limit of 11.9 lbs/hr.

2. The 50 DSCF is a secondary requirement if the filters have very low weight gain which is not the case for this testing effort. The NSPS standard requires that the sample volume be at least 31.8 dscf. The filterable PM catch

for this program averaged 43.9 mg.

- 3. The 30 ml/foot of probe is a PA DEP requirement and was overlooked by the field testing personnel. The same probe was used for all 3 tests which should help ensure that all of the particulate matter rinse was collected. The rinse volume on the third run was 140 ml and a rinse volume of 150 ml is required by the method. CK is of the opinion that it is highly unlikely that this minor deviation would change the compliance status of the results.
- 4. The cyclonic flow and stratification data was amended and is attached with this response (Attachment F).
- 5. The mass emissions were recalculated using the 24 points as referenced in Method 2. The extra time sampled has no impact on the volumetric flow data used for calculating gaseous lb/hr results. (Attachment G)
- 6. Process data for Run No. 3 was amended and is attached with this response (Attachment H).

August 24, 2011

Method 5 Combined with Method 202

The results of this test were not used to demonstrate compliance; a retest was performed on 10/21/11.

October 21, 2011

Method 5 Combined with Method 202

- 1. In accordance with Condition 4 of the March 16, 2011 Bureau of Air Quality protocol review letter (Attachment B), the filter temperature was maintained at 248 +/-25°F. Additionally, enclosed is a copy of a laboratory report (Attachment C) confirming that the natural gas Total Sulfur (% By Weight) is <0.0031%.
- 2. The sampling points for the PM10 sampling train were inadvertently used for this test program. Although the PM10 points are fewer than the 5/202 points, the compliance status should not be impacted as the results indicate that the unit is operating at < 85% of permitted value.
- 3. Lack of stratification and cyclonic flow suggest that additional sample collection for < 15 % of the total runtime should not invalidate the sampling and the results are representative of actual emissions.
- 4. Cyclonic flows have been performed on this unit by CK. A copy of the field data sheet is enclosed (Attachment I).

For the reasons stated above, except where specifically noted, the sampling performance was valid, the results are representative of actual emissions and demonstrate compliance.

SGCI would like to express its disappointment in the Agency's delay in providing comments on the testing program. For example, we note the internal memo commenting on the August 24 and 26, 2010 testing was dated March 9, 2011 yet the letter to us was 13 months after that memo. This did not afford us the opportunity to address your concerns in a timelier manner.

Please note for your records that your letter was addressed to Mr. Rene Beltran; I became the Plant Manager in March. The Responsible Official notification and Title V Administrative Amendment were processed by the Meadville office in March. If you have any questions or require additional information, please contact me at 814-642-3210.

Sincerely, Saint-Gobain Containers, Inc.

Martin Reynolds Plant Manager

Enclosure

Attachment A

SOURCE EMISSION TESTING OF TWO GLASS FURNACES.

3.10 SULFURIC ACID MIST EMISSIONS

Emissions of SAM (including sulfur trioxide) were determined in accordance with Conditional Test Method (CTM) 13A. The sample train consisted of a heated quartz glass probe, heated quartz filter and five midget impingers in series. The first two impingers each contained 25 milliliters (ml) of 80 percent isopropanol (IPA). The third was empty and the fourth impinger contained 25 ml of 3 percent hydrogen peroxide. The fifth impinger contained indicating silica gel.

Following each test run the probe and front-half of the filter holder were rinsed with 100 percent IPA and placed in a sample container. The contents of the first impinger were placed in sample container #1. The first impinger and back-half of the filter holder and connecting line were rinsed with minimal amounts of 80 percent IPA. The contents of the second impinger were placed in sample container #2. The sulfuric acid mist sample fractions were measured by the barium-thorin titration method. Both sample containers #1 and #2 were analyzed separately.

Attachment B

Rachel Carson State Office Building P.O. Box 8468 Harrisburg, PA 17105-8468 March 16, 2011

717-787-1729

Bureau of Air Quality

Ms. Jayne Browning Saint-Gobain Containers, Inc. Saint Gobain Place Port Allegany, PA 16743-0069

Dear Ms. Browning:

The test protocol to determine the sulfur dioxide (EPA Method 6C), nitrogen oxides (EPA Method 7E), carbon monoxide (EPA Method 10), volatile organic compounds (EPA Method 25A), filterable/condensable particulate matter (EPA Method 5/202), particulate matter 2.5µ and 10µ (EPA Method 201A), and visible (EPA Method 9) emissions of glass furnace No. 1 (Source ID 101) at Saint Gobain Container, Inc.'s facility in Port Allegany Borough, McKean County is unacceptable to the Department unless the following conditions are met:

- 1. Conduct a pretest cyclonic flow check and provide data in the final report.
- 2. Conduct a pretest gas stratification check and provide data in the final report.
- 3. The minimum probe rinse for each FPM (EPA Method 5) test run must be at least 30 mL per foot of probe or 200 mL, whichever is greater, to ensure effective recovery.
- 4. A minimum sample volume of 50 dscf shall be collected for each run of EPA Method 5. The filter temperature shall be maintained at 248°F ±/- 25°F.
- 5. Filterable particulate results shall be presented as gm/kg of glass produced and calculated using equation § 60.296 (d)(1) of 40 CFR 60, Subpart CC. Total particulate results shall be presented as gr/dsef, lb/hr, lb/ton glass produced and ton per year for all four components of the total: filterable, organic condensable, inorganic condensable, and total particulate matter.
- 6. If at a later time the results from EPA Method 201A are to be used to determine total particulate, the back-half shall be an EPA Method 202 train instead of an EPA Method 5 train. EPA Method 201A on its own provides results for filterable particulate matter 2.5μ and 10μ.
- 7. EPA Method 6C, 7E, 10, and 25A test runs and data collection shall be for three runs of at least 60 minutes each.

Attachment C

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PARCEODEC EMPORATORIES, INC.

BUIL DIVISION 1962 WAGER ROAD ERIE, PA 16509

(814) 825-8533 FAX (814)825-9254 MARK MATROZZA, LAH DIRBOTOR

CHEMISTRY - MICROBIOLOGY - FOUD SAPETY - CONSUMER PRODUCTS WATER - AIR - WASTER - FOOD - PHARMACBUTICALS - NUTRACBUTICALS

CERTIFICATE OF ANALYSIS

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SEP-30-2011

FROM MICROBAC LABS/ERIE DIV. 10:21

TO 18147259567

Microbac Laboratories, inc.

mne Бимерон 1982 Wager Road « Bris, PA 16509 « Phone: 814-825-8533 « Pox: 814-825-9254 Charl Estès, Managing Director « E-mail: erip@mlorobac.com « http://www.mlcrobac.com Erle Division

Preliminary Gertificate of Analysis

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Vineyard Oll & Gas 10299 West Main Road North East, PA 16428

Date Reported Date Received 09/29/2011 00/27/2011

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Subject: Saint Gobain Location - Gas sample

ANALYSIS

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METHOD 25A DATA SHEET

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Attachment E

Summary of Performance Testing Emissions Saint Cobain - Port Allegany Furnace #1

6/8-9/2011

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| | Pun 3 | 0-08 | 10:32 | | 30% | 77.77 | 1.456 | 1052 | 7.8 | | 21,665 | 405,7 | 6,41 | 16.2 | 3.5 | 1,22,2 | (S) (S) | 7.20 | 765.74 | 2 SE SE | 76P,02 | 75 | 77001 | 47.4 | C97701 | 77. | × . | 6,57 | 77.7 | 0/47 | 6775 | 4,27 | 5.1 | | | | | | |
| | Rum 2 | 11/80/00 | 18:10 | - | 80000 | e contract | 1,443 | -2.96 | 7.8 | | 25,051 | 362.8 | 1.2.1 | 16.0 | 3,5 | 149.0 | 26,757 | 3.425 | 117.19 | (35.7 | 47.50 | 5.068 | 207.57 | 275 | (4.29) | 1.831 | 62,63 | 2.94 | 45.5 | 505 | cono 0 0 | 2.2 | č. | | | | | | |
| í | Ran l | 11/80/60 | 14:55 | | 40 000 | Officerio | 365 | 50,3 | 87. | | 24,581 | 420,3 | 11.7 | 16.2 | 4.0 | 133.0 | 23.440 | 3,005 | 102.67 | 371.6 | 59.843 | 5.108 | 174.51 | 6,59 | 15,672 | 7000 | % % | 6,43 | 7,28 | 1.084 | 4,139 | 4.73 | 5.2 | | ints | | | | |
| | | 1 | Stop | | 0 1 | (cscr) | (decant) ⁿ | (%) | Tons/hr | | (dscfm) ^c | E | (%) | S | 3 | (FPM) | Th/dr | To/ten of glass pull | tons/yr | (Mdd) | 16/str | Th/ton of glass pull | tonaty | (PPMC) | lb/tr. | Undessiff of Epises bull | tensyk | (PPM) | (PPMvd) | 44 | th/ton of glass put | tons/yr | (%). | ! | using 24 Traverse Fo | | | | |
| navenimental tar | ust Run No. | Sate | ine | omale Confidens | | Velame | Volume | Isokinetics | Glass Pull | lark Conditions | Flow Rate | Temperatric | Moisture | Oxygen | Carbon Dioxide | Oxides of Wittogen | Oxides of Mitpigen | Oxides of Mirogen | Oxides of Wiregen | Carbon Menoxide | Carbon Menoxide | Carbon Monoxide | Carbon Monoxide | Sulfur Dioxide | Sulfur Dioxide | Sulfar Dioxide | Sulfer Dioxide | Volatile Organic Compounds | Volatile Organic Compounds | Volatile Organic Compounds | Volatile Organic Compounds | Voluthe Organic Compounds | Opacity | | Recalculated emission rates using 24 Traverse Points | | | | |

a) dry standard cubic feet 5) dry standard cubic meters Attachment F

FLOW AND MOISTURE DATA SHEET

RUNNO. CYCLONIC CHECK

| Cilent: | St. 6 | OBAIN | Duct Dia: | | | Pilot Coeffic | | | | - |
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| Plant: | | | Test Duration: | | | Orifice Delta | | | | - |
| Coolike | THE STATE OF THE S | 7, | Mlo. Per Pt: | | | Test Time: | | | | • |
| City Sieles | DOF I | AR. MA | Amb. Temp: | | | | Slop | | | 4. |
| City, diste- | 708-1 | 711 | Bar. Press: | | | Train Lk Gk: | | | | "Hg |
| Test Date: | হাতিত | D 66 | Probe ID: | | | | Final | | | aHg |
| Tost Loo: | | | Dry Gas Meter_ | Y: | ······································ | Pilot Lk Ck: | | | | |
| Testers: | -de | 3/11 | _D11 D40 (110101 | | | (>3" WC) | Final | | OK | |
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| Stack Stat | 1 | | -Velocity | T Stack | Gas Volume | Dry Ga | s Meter | Last Imp. | Pump Vac | |
| Port | Point | Time | DENSE | F | ft^3 | In | Out | F | "Hg |] |
| | | min. | 15 | | | | | | _ |] |
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Onality Control Cheeke

Completeness Legibility Accuracy Specifications Reasonableness

Attachment G

Summary of Performance Testing Emissions Saint Godnin - Port Allegany Furnice #3

| 8/23/11 | |
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| Facility Peenit Limit | 9.5 |
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| Амаадо | 47,658 1350 97.7 11.2 11.2 37359 477.2 16,4 3.6 127.7 121.7 121.8 |
| Run 3. 8/23/201 17:40 19:08 | 46.780 1.324 96.7 11.2 11.2 38.111 485.4 3.6 126.9 3.46.5 3.46.5 1.034 1.034 1.534 1.534 |
| Rus 2 822/201 13:25 17:06 | 46.122 1,306 94.4 11.2 17.350 478.3 7.1 16.3 35.46 35.46 5.165 155.25 155.25 |
| Run 1 • \$23/201 10:40 12:30 | 50,003 1,479 101,9 10,13 37,556 468,2 4,9 16,3 33,849 33,849 33,849 146,26 146,26 |
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| Test Rain No. Date Time | Stant's Conditions Volume Volume Volume Volume Tothereins Glass Puil Stugh Conditions: Flow kate Tomperature Wotspure. Oxygen Carbon Dloxide Oxides of Nitrogen |

a) dry standard enbic feet. b) dry sunderd cubic protess c) dry standard cubic feet per minute

Attachment H

| Process | Operating | Data | Saint | Gobain | Containers | -Port |
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| percent | | 26905 | ಫಿ68.° | | #3. |
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| Date | Time | Yon/Hr | Tou/Hr | MCF/Hr | Deg F |
| 8-23-11 | | 06968 / H.2 | 2408/112 | 46.25 | 2468 |
| 20-62 | 0815 | 11.2 | · 1/.2 | 45,25 | 2468 |
| | 0830 | 11102 | 11,2 | 410,25 | 2665 |
| Ĭ | 0845 | II.A | 14.2 | 45.25 | 2666 |
| | 0900 | 11.2 | 11.2 | 46,25 | 2669 |
| • | 0915 | 11.2 | 14.2 | 46,25 | 2666 |
| | 0730 | 11,1 | 11.2 | 45.25 | 2660 |
| į | 0945 | 11.2 | 11,2 | 46,25 | 2670 |
| | 1000 | 11.2 | (I.Â | 45-25 | 2661 |
| | 1015 | 11.2 | 11.7 | 45-25 | 12664 |
| | 1/5 30 | 11.2 | 11-2 | 46.25 | 2658 |
| | 10 45 | 11.2- | 11.2 | 115.25 | 1.2655 |
| | 11:00 | 11.2 | 11.2. | 16-15 | 7658 |
| | 16:14 | 12.2 | 14 02 | 45.25 | 2/256 |
| | 11:30 | 111.2 | 41.2- | 115.25 | 3660 |
| | THE THE | 11.7 | 11.2 | 21625 | 12657 |
| 1,700X | 17/00 | 11:7- | 11.2- | 46.25 | 26.60 |
| 1,200, | 12:15 Pm | 1 11.2 | 11.2- | 4550 | 2642 |
| | 12:30 6 | 11.2 | 11.2 | 46.25 | 3659 |
| | 12 US Br | 112 | 1/12 | 45,50 | 2656 |
| | 1-2 00 m | 11.2 | Mar | 46 265 | 7658 |
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| | 22.30 m | 11.2 | 11.2 | 45.50 | 2656 |
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| <u>.</u> | K.00 /- | 1/2- | 11.2 | 46.25 | 2663 |
| | 5.15P- | 11.2. | 1/2 | 45.50 | 2661 |
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| | 5:45 Pm | 11-2 | 11.2 | 45.50 | 2660 |
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Attachment I

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| CYCLONIC |

| Size Static Pressure Files | Furtise #1 | | Fax:(781 828-5330) Pollutant Duct Dia. Test Duration Min. Per Pt. Ann Pamp Ann Pamp Bar. Press. Filter No. | (00) | | Nozzle No. & Dia. Probe Hast Set Filter Temp. Set Assumed % H ₂ O Nomograph K Factor Dry Gas Meter Y | Fasta Dala Straat R. B. Dia. R. Sed W. H. D. A. K. Factor Anter 'Y | | Pitot Coefficient Odifice Delta H @ Test Time Start Traint1.eak Check Pitot Leak Check (>3" WC) | | Page_1_ of1 | | ż c |
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Cc: All send certified mail - return receipt requested

Via Certified Mail: No. 7006 0100 0004 0902 1325

Director
Air Enforcement Division (2242A)
Office of Enforcement and Compliance Assurance
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Via Certified Mail: No. 7006 0100 0004 0902 1332

Mr. Christopher Pilla, Chief Air Enforcement Branch Mail Code 3AP12 U.S. Environmental Protection Agency – Region 3 1650 Arch Street. Philadelphia, PA 19103

Via Certified Mail: No. 7006 0100 004 0.901 7496

Staci Gustafson, Operations Chief Air Quality Program Pennsylvania Department of Environmental Protection Meadville Regional Office 230 Chestnut Street Meadville, PA 16335

John W. Carroll Pepper Hamilton, LLP 100 Market Street Harrisburg, PA 17108

David Knight Saint-Gobain Containers, Inc.

Alan McLenaghan Saint-Gobain Containers, Inc Cc: All send certified mail - return receipt requested

Via Certified Mail: No. 7006 0100 0004 0902 1325

Director
Air Enforcement Division (2242A)
Office of Enforcement and Compliance Assurance
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Via Certified Mail: No. 7006 0100 0004 0902 1332

Mr. Christopher Pilla, Chief Air Enforcement Branch Mail Code 3AP12 U.S. Environmental Protection Agency – Region 3 1650 Arch Street. Philadelphia, PA 19103

Via Certified Mail: No. 7006 0100 004 0.901 7496

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